

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Xin Li

Serial No.: 10/043,759

Filing Date: January 10, 2002

Title: NONLINEAR EDGE-ENHANCEMENT FILTER

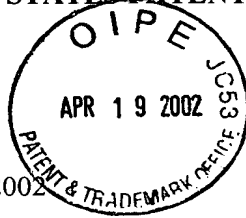
Box DD
ASSISTANT COMMISSIONER FOR PATENTS
Washington, D.C. 20231

Examiner:

Not yet assigned

Group Art Unit:

2857

**RECEIVED****JUL 15 2002****Technology Center 2600**

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

☒ under 37 CFR 1.97 (b), or
(Within three months of filing national application; or date of entry of International application; or before mailing date of first office action on the merits; whichever occurs last)

☐ under 37 CFR 1.97 (c) together with either a:

☐ Statement under 37 CFR 1.97 (e), or

☐ a \$180 fee under 37 CFR 1.17 (p), or

(After mailing of first Office Action, but prior to Notice of Allowance or Final Office

Action)

☐ under 37 CFR 1.97 (d) together with:

☐ Statement under 37 CFR 1.97 (e), or

☐ a \$180.00 fee set forth in 37 CFR 1.17 (p).

(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

☒ Applicant(s) submit herewith Form PTO 1449- Information Disclosure Citation together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

It is requested that the information disclosed herein be made of record in this application.

Any deficiency or overpayment should be charged or credited to deposit account number 13-1703. A duplicate copy of this sheet is enclosed.

**20575**

PATENT TRADEMARK OFFICE

Respectfully submitted,

MARGER JOHNSON & McCOLLOM, P.C.

James E. Harris
Reg. No. 40,013

PATENT APPLICATION

Atty. Docket No.:
Applicant:
Filing Date:

8371-142
Xin Li
January 10, 2002

Serial No. 10/043,759
Group: 2857



INFORMATION DISCLOSURE CITATION
FORM PTO-1449 (Modified)

RECEIVED
JUL 15 2002
Technology Center 2600

U.S. PATENT DOCUMENTS

| Exam Init | Ref | Document Number | Issue Date | Name | Class | Sub- Class |
|--------------|-------|--------------------|---------------|----------------|-------|---------------|
| _____ | _____ | 5,644,513 | July 1, 1997 | Rudin et al. | | |
| _____ | _____ | 5,819,035 | Oct. 6, 1998 | Devaney et al. | | |
| _____ | _____ | 5,787,208 | July 28, 1998 | Oh et al. | | |
| _____ | _____ | 6,028,646 | Feb. 22, 2000 | Jeong et al. | | |
| _____ | _____ | 5,937,090 | Aug. 10, 1999 | Kim | | |

FOREIGN PATENT DOCUMENTS

| Document Number | Publication Date | Country | Name |
|--------------------|---------------------|---------|-------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

OTHER DOCUMENTS

| Exam Init | Ref | (Including Author, Title, Date, Pertinent Pages, etc.) |
|--------------|-------|--|
| _____ | _____ | Ilya Pollak, Alan S. Willsky, and Hamid Krim, "Image Segmentation and Edge Enhancement with Stabilized Inverse Diffusion Equations", IEEE TRANSACTIONS ON IMAGE PROCESSING, Vol. XX, No. Y, 1999, pp 1-12. |
| _____ | _____ | Stanley Osher and Leonid I. Rudin, "Feature-Oriented Image Enhancement Using Shock Filters", SIAM JOURNAL OF NUMERICAL ANALYSIS, Vol. 27, No. 4, August 1990, pp 919-940. |
| _____ | _____ | Pietro Perona and Jitendra Malik, "Scale-Space and Edge Detection Using Anisotropic Diffusion", IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, Vol. 12, No. 7, July 1990, pp 629-639. |
| _____ | _____ | Giovanni Ramponi and Andrea Polesel, "A Rational Unsharp Masking Technique", JOURNAL OF ELECTRONIC IMAGING, Vol. 7, No. 2, April 1998, pp 333-338. |

Examiner: _____

Date Considered: _____

RECEIVED
APR 22 2002
TECHNOLOGY CENTER 2800